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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/627,207	07/25/2003	Cheng-Chi Lee	D6461	4237		
7:	590 07/27/2004		EXAMINER			
Benjamin Aaron Adler ADLER & ASSOCIATES			LIETO, I	LIETO, LOUIS D		
8011 Candle La			ART UNIT PAPER NUMBER			
Houston, TX	Houston, TX 77071			1632		
			DATE MAII ED: 07/27/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply	1.1	Application No.	Applicant(s)	
Examiner Louis D Listo - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION Entersors of time may be available under the provisions of 37 CFR 1 138(a). In no event, however, may a repty be timely filled or early \$1 KP Open do the repty (\$10 (days with 52 core land) and the correct \$1 KP (\$10 (days, a repty within the stabulary minimum of theiry (\$20) (days with 52 core land) and the fill stabulary minimum of theiry (\$20) (days with 52 core land) and the stabulary minimum of theiry (\$20) (days with 52 core land) and \$20 (days with 52 coresident timely, 18 (MONTHS from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident) timely, 18 (days with 52 coresident) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the application. \$1 KP (\$10 (days with 52 coresident)) from the provision from the mailing date of this correct. \$1 KP (\$10 (days with 52 coresident)) from the provision from the		10/627,207	LEE ET AL.	
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* See the attached detailed Office action for a list of the certified copies not received.	• •	* **		
	* See the attached detailed Office action for a	list of the certified copies not receive	ed.	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _____.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Attachment(s)

4) Interview Summary (PTO-413)

Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____.

Application/Control Number: 10/627,207

Art Unit: 1632

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-4, drawn to a method of inhibiting tumor growth, classified in class 514, subclass 44.
- II. Claims 5-7, drawn to a method of diagnosing a neoplastic condition, classified in class 435, subclass 4.
- III. Claims 8 and 9, drawn to a method of treatment of cancer, classified in class 514, subclass 2.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are unrelated and comprise different steps and can be performed without each other. Invention I is to a method of inhibiting tumor growth in an animal comprising the administration of a vector encoding the mPer2 protein. Invention II comprises a method of diagnosing a neoplastic condition in an individual based on changes in expression of a circadian clock controlled gene in comparison with a normal individual. Invention III is to a method of treatment of cancer by synchronization of cancerous and non-cancerous cells with drug molecules or hormones. The method of invention II is distinct in that it is to a method of diagnosis while Inventions I and III are to a method of inhibition and a method of treatment, respectively. Further Invention I is a method of inhibiting benign or cancerous tumor growth in a mammal, amphibian, bird, fish or reptile with a vector containing mPer2; while invention III is a method of treating cancer using a drug molecule or hormone. Neither Invention requires the other. The methods of

invention I, II and III can be performed without the use of any steps or products from the other inventions.

This application contains claims directed to the following patentably distinct species of the claimed invention: The inventions of group II, list the following patentably distinct species of circadian controlled genes.

- a) c-Myc
- b) Cyclin D
- c) Cyclin A
- d)Mdm2
- e) Gadd45α

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 5-7 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Lou Lieto whose telephone number is (571) 272-2932. The examiner can normally be reached on Monday-Friday, 9am-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Amy J Nelson can be reached on (571) 272-0804. The fax phone number for the organization where this application or proceeding is assigned is (703)-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Patent applicants with problems or questions regarding electronic images that can be viewed in the PAIR can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Dr. Louis D. Lieto Patent Examiner Art Unit 1632

> ANNE M. WEHBE' PH.D PRIMARY EXAMINER